Minneapolis Climate Action Plan



Buildings and Energy Working Group

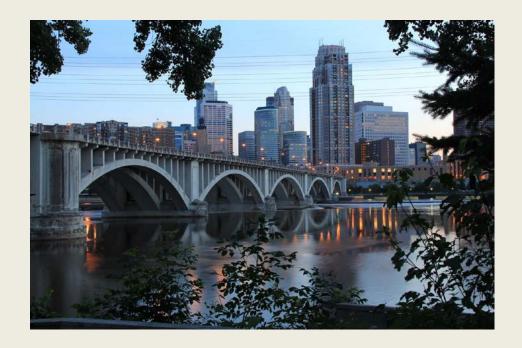
July 10, 2012

Agenda

2:00 – 2:10	Greetings & Introductions
2:10 – 2:30	Review outcomes and emissions forecasts
2:30 – 3:00	Discussion of strategy changes
3:00 – 3:50	Review strategy survey results, finalizing list
3:50 – 3:55	Identify Steering Committee Reps
3:55 – 4:00	Next Steps

Today's expected outcomes

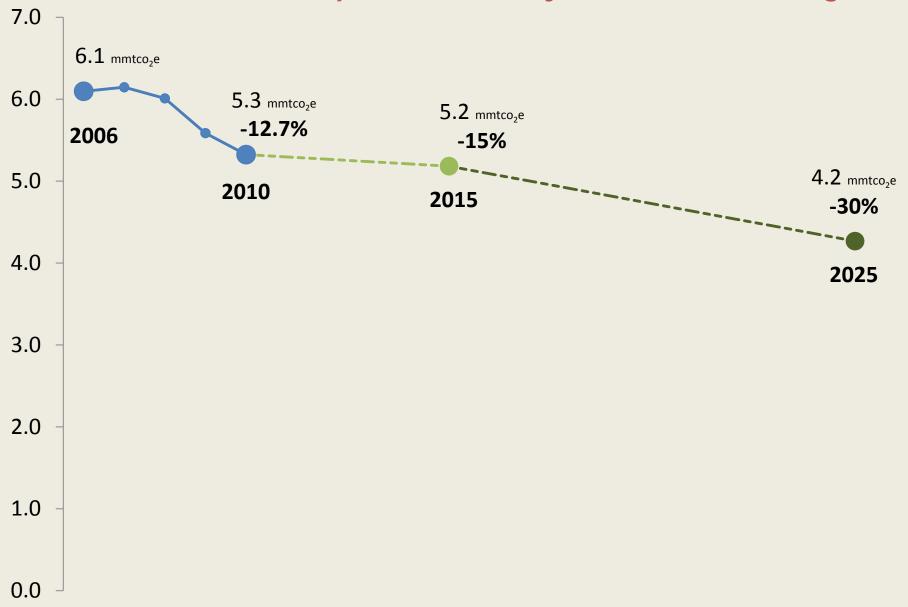
- 1. Review and understand the changes to the strategy list and survey results
- 2. Finalize any changes or additions to the strategy list
- 3. Confirm two representatives for the Steering Committee



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INTRODUCTIONS

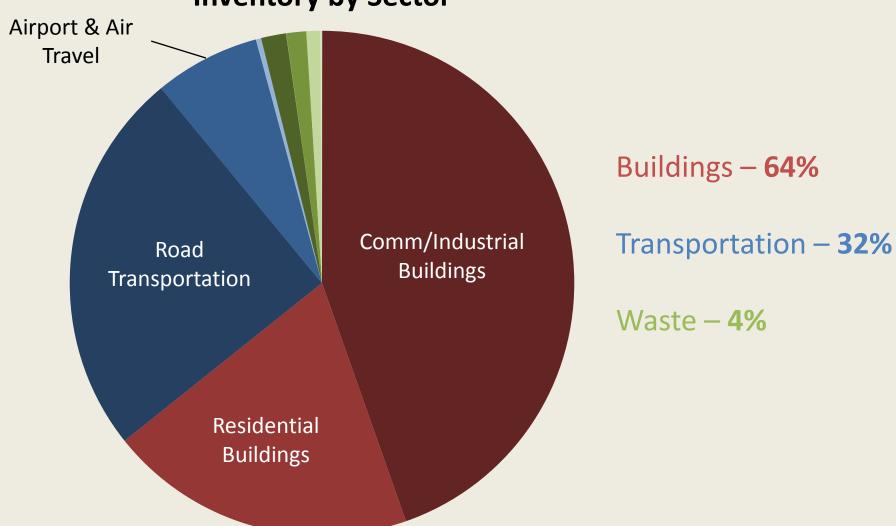
Minneapolis Community GHG Reduction Targets



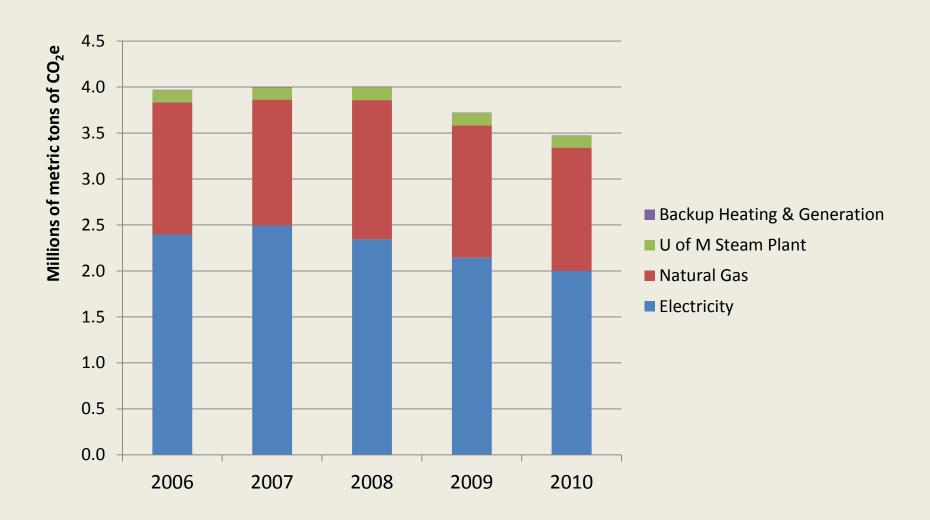
Evaluation Criteria

Criteria:	Measurements:
GHG emissions reduction	Carbon dioxide equivalent
Costs and savings	Public and private \$ or relative cost (high, medium, low)
Implementation timeframe	Months, years
Feasibility	Political, social, or institutional obstacles
Social Equity	Disparate impacts (positive or negative)
Co-benefits	Health, economic development, job creation, energy conservation, mobility, quality of life, etc.

Minneapolis 2010 Community GHG Inventory by Sector



Building Emissions (by Fuel)



Building Emissions (by Type)



Proposed Buildings & Energy Goals

- 1. Achieve **15% energy efficiency in residential buildings** from the growth baseline by 2025.
- Achieve 20% energy efficiency in commercial buildings from the growth baseline by 2025.
- 3. Increase **electricity from renewables from 1.5% to 5%** of the total consumed by 2025.

Mpls GHG Emissions from Electricty and Natural Gas

Baseline and CAP Goals



Changes to Strategy List

- 1. CC7 modified wording to give planning & zoning staff more flexibility to implement
- CC8 moved "PACE" language from Commercial strategies, broadened language to include a financing mechanism for residential
- 3. CC9 Added to support U of M's efforts
- Removed Residential strategy to develop City rebates for energy efficiency – low impact
- 5. Removed Residential strategy for rental property tax exemption per discussion, and covered by financing strategies in CC8



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GOALS & STRATEGY SURVEY

Consensus strategies (high/medium emissions reduction)

- 1. Most energy-efficient city in America initiative
- 2. City facilities as EE models
- Financing tools for EE and RE
- 4. Expand district heating & cooling
- 5. Competition programs (Kilowatt Crackdown)
- 6. Industrial loan program
- 7. Large-scale/bulk renewables purchasing

Consensus strategies (low emissions reduction)

- 1. Time-of-sale energy labeling & disclosure
- 2. Connect with other residential EE efforts
- 3. Commercial Asset rating program
- 4. Industrial Asset rating program

Strategies to remove/change

- R4 (now deleted) Rental energy efficiency tax credit. Few benefits.
- 12 Industrial Asset Rating. Too complicated.

Strategies to add

- 1. Residential energy efficiency program targeting public housing.
- 2. Feebates
- Identify and implement strategies to promote increased utilization of combined heat and power systems by utility service providers, large commercial entities, industrial customers, etc.
- 4. Identify and implement financial incentives and/or regulatory mechanisms to encourage industrial and/or commercial entities that produce waste heat as a byproduct to transfer that heat back to district heating/cooling service.
- 5. Provide financial incentives or loan assistance for buildings to connect to district heating/cooling.

Strategies to add

- 1. Identify incentives the municipality can provide to grow the amount of solar pv and solar thermal installed in the City, particularly as solar rewards rebates sunset.
- 2. Promote utilization of renewable energy on public properties (e.g. parks land, school buildings, City buildings and properties). Utilize public lands as opportunities to try pilot scale, renewable district energy (e.g. a geothermal installation in a city park that provides heating and cooling to the adjacent homes).
- 3. Include Energy Star Portfolio Manager in asset rating strategies
- 4. Industrial-grade wind turbines in parks
- 5. SB2030 for Sustainable Operations (city buildings?)



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STEERING COMMITTEE REPS

Next Steps

- Next meeting?
- Finalize the strategy list based on discussion
 - MDH will review all strategies and provide feedback on public health implications
 - EJ working group will review all strategies and provide feedback on social equity impacts
- Staff to develop "strategy packet" for Steering Committee to review
- Steering Committee will convene the week of September 10th

Thank You



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www.minneapolismn.gov/sustainability/climate/

